

ISOLATED NUCLEIC ACID MOLECULES ENCODING THE DW3
P-GLYCOPROTEIN OF SORGHUM AND METHODS OF MODIFYING GROWTH
IN TRANSGENIC PLANTS THEREWITH

ABSTRACT

The invention relates to the genetic manipulation of organisms, particularly to the expression of P-glycoprotein genes in transformed plants and other organisms.

5 Nucleotide sequences for the P-glycoprotein genes, particularly the *Dw3* gene of sorghum, and methods for their use are provided. The sequences find use in modifying the growth of organisms, particularly plants. Additionally, the invention provides methods for producing stable dwarf crop plants, particularly stable dwarf sorghum plants.